Calculus Warm Up #3-4

$\frac{dy}{dx} = \frac{3 - x}{y}$

Let y = f(x) be the particular solution to the differential equation for 1<x<5.

The line y = -2 is tangent to the graph of f.

Find the x-coordinate of the point of tangency and determine if that point is a local minimum, maximum or neither.

Last night's HW was long and carries over for tonight!

Questions on it will be answered tomorrow.

Week 3 Classwork

Staple up for tomorrow:

Warm up on top

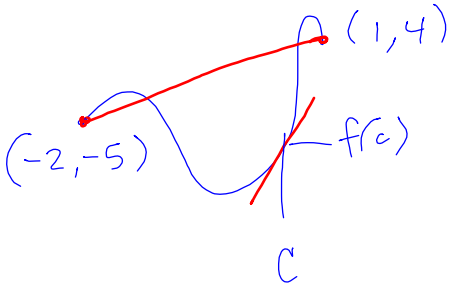
Green FR 2010

Questions MC B:

77) $\int_{-3}^{3} f(x)\,dx + \int_{-3}^{3} 1\,dx$

$x\Big]_{-3}^{3}$

80)



83) $\frac{1}{3-0}\int_0^3 v(t)\,dt$

84) $350 - \int_0^5 (-110e^{-0.4t})\,dt$

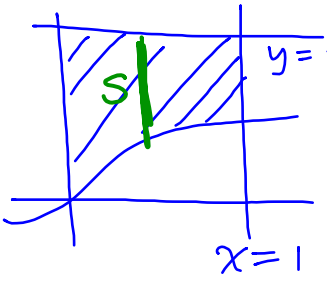
82) change in altitude (accumulated change)

altitude decreases when $r(t)$ is $-$

$\int r(t)\,dt$

graph $r(t)$ & calculate zeros.

86)



$S = 3 - \tan^{-1}x$

$V = \int_0^1 (3 - \tan^{-1}x)^2\,dx$

87) Graph $f' \rightarrow$ PI of f where $f''=0$ or at extrema of f'

91) $v(t) = \int \ln(1+2^t)\,dt$

$v(2) = v(1) + \int_1^2 \ln(1+2^t)\,dt$

calculate.

Classwork:

2002 FR # 1 - 3 (Purple)

Will carry over into next week.

HW: Finish up

p. 591, # 1 - 33 odd